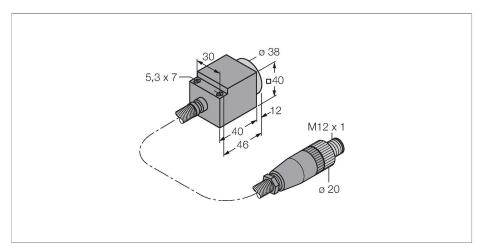


NI25-CQ40/S1102 5M Inductive Sensor – With Increased Temperature Range



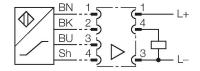
Technical data

Туре	NI25-CQ40/S1102 5M
ID	1602410
Special version	S1102 Corresponds to:Ambient temperature up to 250 °C
General data	
Rated switching distance	25 mm
Mounting conditions	Non-flush, partially embeddable
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Hysteresis	315 %
Electrical data	
Output function	NO contact, PNP
Mechanical data	
Design	Rectangular, CQ40
Dimensions	52 x 40 x 40 mm
Housing material	Plastic, AL
Active area material	PEEK
Electrical connection	Connector, M12 × 1
	max. connector temperature -20+70°C
Cable quality	Ø 3.7 mm, PTFE, FEP, 5 m
	Al cable sheath, Ø 8 mm
Core cross-section	3 x 0.34 mm ²
Environmental conditions	
Ambient temperature	0+250 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)

Features

- Rectangular, height 40 mm
- Sensor housing, Aluminium
- Plastic, PEEK
- Aluminium cable sheath
- ■For temperatures up to +250 °C
- Functions only with signal processor EM30-AP6X2-H1141/S1102
- Switchpoint adjusted at the processing unit
- ■3-wire connection to the processor

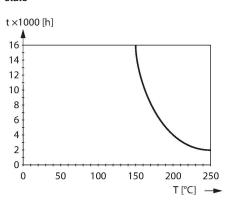
Wiring diagram



Functional principle

The sensors must be operated with an EM30-AP6X2-H1141/S1102 signal processor. The switching distance is set using a potentiometer (continuous) on the signal processor. This is located under a cover screw next to the LED. Where possible, the switching distance must be set at operating temperature. When setting the switching distance at room temperature, the temperature sensitivity of the sensor system must be taken into account. Setting:

- 1. Place the target (steel, min. 1 mm thick, square, edge length min. 3x rated switching distance) at a safe switching distance in front of the sensor
- 2. Turn the potentiometer counterclockwise until the LED lights up green
- 3. Turn the potentiometer clockwise until the LED lights up yellow
- 4. Perform functional checks in the operating state

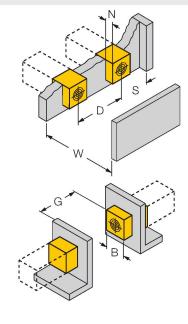


Protection class

IP60

Mounting instructions

Mounting instructions/Description



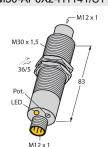


2 x B
3 x Sn
1.5 x B
6 x Sn
2 x Sn
1 x Sn
40 mm

1-side mounting on metal without modification of the switching distance

Accessories

EM30-AP6X2-H1141/S1102



1602411

Signal processor for 250 °C sensor; housing material: Stainless steel 1.4571; protection class: IP67; function display: LED/yellow; operating voltage display: LED/green; ambient temperature: -20...+70 °C